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Introduction

"26 October, 1956 — Jump Number 16 — Service Company, 325th Airborne Infantry Regiment, 82nd Airborne Division — Orop Zone Sicily, Fort Bragg, N.C. — Stick Position, 20 — Parachute Type, 1-18 — Type Jump, Combat Equipment — Type Aircraft, C-130 — Remarks; "Impressive Airplanet"

This entry from my Jump Log, now almost a quarter century old, its pages yellowing and dog-eared, describes my introduction to the C-130. At the time, I had been in the Army just a year and I was thoroughly enjoying jumping out of airpianes. I volunteered for every jump that came up. Since this was the era of the peacetime Army, the 82nd was far understrength and there were lots of opportunities to jump. When the chance to biast a new airplane came along, I couldn't resist. The jump was arranged through the auspices of the Continental Army Command's Test Board Five and, to the best of my knowledge, it was the first time that paratroops were to be dropped from the C-130. Major Russ Dobyns, one of the Air Force Test Pilots in the 130 program, brought the airplane up to Pope AFB from Marietta for the tests. We had manifested a full load of 54 parachutists, as well as 5 observers from the Test Board.

I should say a word about the "Impressive Airplane!" remark I recorded in my Jump Log. Until that flight, I had had exactly 24 airplane rides, fifteen of which were terminated in mid-air. The most impressive airplane I had flown in was probably the Constellation. All of my previous experience with Air Force aircraft had been limited to the C-119 Flying Boxcar, If you have ever flown in the C-119, you will immediately understand how an Army Private, with limited flying experience, could be moved to comment enthusiastically on the performance of the C-130. The C-119 was a follow-on to the C-82 Packet. It entered production in 1949, a total of 1,112 being built, several of which are flying missions today. it was the backbone of the medium tactical transport force in 1956 but it was severely limited in several categories. (A popular story of the day insisted that scientific analysis proved that neither the bumblebee nor the C-119 would fly at all!) The Flying Boxcar (a name which didn't help its aerodynamic reputation much) did take a lot of concrete to get airborne and was no heavyweight lifter. The Air Force Heavyweights, the C-54 and C-124 were slow in the air, and slow to turn around, once on the ground. This had been demonstrated painfully at the beginning of the Korean War. That war, fought on the other side of the globe, demonstrated the necessity for a modernization of the strategic and tactical airlift forces. A good deal of thought was put into writing the specifications for the new transports. Yes, plural transports. The Air Force put out Requests for Proposals on 3 new transports in 1951 and 1952. The General Operating Requirements specified in the C-130 RFP were written to encompass four missions. The resupply mission required a payload of 37,800 lbs, carried out to 950 nautical miles and return without refuelling. The airhead mission specified resupply of troops in the combat zone and required a payload of 25,000 lbs, carried for 1,100 at low level and high speed and return without refuelling. The troop carrier mission called for carrying 92 combat-equipped infantrymen, or 64 parachutists. The logistic support mission required a payload of 37,800 lbs, carried for a range of 1,700.

The Industry was well aware of Pentagon thinking and the competition for the new transport contract was stiff. Designs were submitted by Fairchild, Boeing, Lockheed and Douglas. Lockheed's competitors all had recent experience in building transport aircraft. The closest thing to a transport type that Lockheed had built was the sleek Constellation, which, though adapted for the military role, was really a plush long-range airliner. But if Lockheed was short on practical airliff experience, it was long on innovative design thought and its winning proposal exhibited pure genius. The general layout of the C-130

An early production C-130A demonstrates its maneuverability on a test flight out of Lockheed's Marietta Plant. The effectiveness of the controls so necessary for low speed handling on approaches and departures from rough, unimproved fields turned many C-130 drivers into quest-fighter locks. (Lockheed)



The second prototype YC-130 on an early flight from Burbank. The two prototypes were built at Burbank, with all production since that time having been shifted to Marietta. (Lockheed)

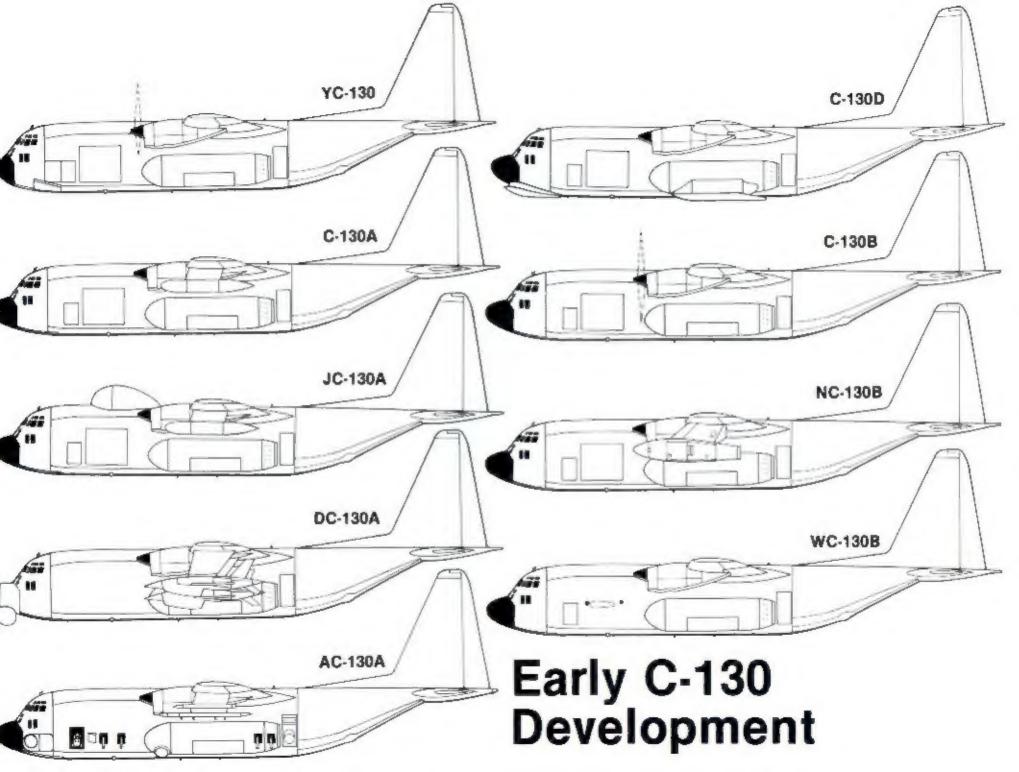
is pretty much taken for granted today, as all the best airlifters have imitated the basic Hercules configuration, but when the wraps came off in 1952, its appearance shocked and dismayed many aviation people, who had come to expect innovation in the form of swept-back or slimmed-down. But pretty is as pretty does and the Herk bugan winning advocates on its first flight on August 23, 1954. It is still winning converts today.

As I recall it, my first sight of the C-130 that day in 1956 did not produce any great shock. We didn't much care what it looked like, as long as it got us to the drop zone without any problems. If I had been more knowledgeable about airplanes, I might have been impressed with the fact that the landing gear seemed to have been stuck onto the Juselage sides as an afterthought. This kept the cargo compartment from getting clutlered up. Then too, the four main gear wheels were mounted in tandem, an ingenious layout that made for better performance on unprepared fields. (The leading lire would plow a path for its follower.) Since we didn't expect to be flying in the stratosphere. I probably wouldn't have been impressed with the fact that the cavernous fuselage, with all Its doors and windows, was fully pressurized,...no mean feat, and very necessary for those long flights, since altitude means range with a jet engine. We were impressed with the big cargo loading ramp at the rear of the airplane, which was situated conveniently at truckbed height when gropped to a level position. It could be dropped further and, with the addition of a couple of short ramps, you could drive your truck right aboard! If I had been a pilot and had been allowed to visit the flight deck, I would surely have been impressed with the layout of the controls and the absolutely amazing visibility afforded by all those windows in the nose. (Pilots continue to be impressed and amazed today).

During our pre-flight briefing, we were shown the prop-blast deflectors that would popout of the rear of the wheel well fairings, allowing us to leap off the step that was extended straight out the door from the floor of the cabin. The C-130 fusielage is much rounder in cross-section than that of the C-119, resulting in a door threshold that is further inboard than the center of door. The extendable platform allowed us to get our knees in the breeze before we jumped. It also allowed us to depart the airplane more easily. That round fusielage had been flattened at the top to accommodate the wing carry-through box, and at the bottom to create a flat floor. Its dimensions (10 feet wide, 9 feet high, and 41 feet long) were those of a standard religious boxcar.

When Russ Dobyns fired up those four Altison T-56A Turboprops, the noise was deafaning. Even with the doors closed, there was no way to carry on normal conversation. This was before the era of commercial jet aviation and the only turboprops plying the airways at that time were those of the British Viscount, which most of us had yet to see, hear or ride in. We were impressed with the noise, even if we didn't understand the principle behind the constant high rpm (13,820 for the turbine, 1,106 for the prop). Those four turboprops were one of the most impressive features of the C-130. They produced 3,750 equivalent shaft horsepower each, which added up to a power-to-weight ratio of 2.3 per Lb. That gave the Herk a cruising speed of 360 and, with the acceleration of a prop, would allow operations out of short fields. The prop was reversible, which allowed for landings as well on short fields. Add to that the reliability factor of the jet engine, which had many fewer parts than the recip, and you had incontestible evidence of the superiority of the jet engine. That reliability added up to a higher utilization rate, which coupled with the higher load factors, put the linat nail in the C-119's coffin. The Hercules would turn out to be 50% cheaper to operate than the C-119 on an hourly basis.

If we were impressed with the noise of the C-130, we were absolutely astounded by the tremendous acceleration it demonstrated on takeoff. All of a sudden, we were leaning to the rear, in unison, at a 45 degree angle! (You sit sideways.) The looks on our faces were all variations of astonishment! This was the kind of demonstration that couldn't fail to impress you, whether you were on the flight deck or huddled in the hold. It was one of the reasons that pilots fell in love with the Hercules from that first flight. It has more power



than you think you have a right to expect from a transport. Add to that power the maneuverability and handling ease afforded by the hydraulically-boosted controls and you can see why the C-130 began turning transport pilots into lighter pilots from the moment they got their hands on the controls, in fact, the first wing to receive the C-130 formed an airshow team. The 463rd Troop Carrier Wing, which received their 130s in December 1956 fielded the "Four Horsemen". The Horsemen flew regular wing airplanes for the airshow routine, which included a diamond formation, arrowhead and echelon. They even demonstrated maneuvers such as a bomb-burst. The formation they flew was close and precise, eliciting expressions of admiration, or disbellef, from fighter pilots.

Our ride to the drop zone was all too short. It seemed we had barely leveled off when the rad light came on, signalling 6 minutes until we jumped. The Jumpmaster stood up and began to intone the jump commands over the loudspeaker system. This was another innovation that was felt to be necessary because of the size of the airplane. In the smaller C-119, only four minutes were required for the jump commands. In the 130 we had to stand up one slick at a time, fold our seats, then wait until the other sticks stood and folded their seats before continuing with the procedure. They had allowed us an extra two minutes for this and it seemed to work quite adequately. They had also selected the longest Drop Zone at Fort Bragg for our jump. Sicily is about forty seconds long, though it is divided in the middle by a narrow waist. We had 32 jumpers on each side of the airplane, which gave us over a second a jumper to get out. (This was more than enough lime. A planeload of 82nd jumpers had emptied the 40 seat C-119 in something under 10 seconds!) Any worries we might have had about fighting our way out the door in the face of that lierce turboprop blast proved to be groundless. With the airplane slowed to 120 knots, the flaps down and the blast deflectors out, getting out the door and clear of the fuselage was a piece of cake. Once out the door, it was all the same, one second the sound and fury of flight in a powerful airplane at 140 miles per hour, then the rustie and snap of your parachute opening, then the seemingly unearthly quiet with only the gentle soughing of the wind through the suspension lines, punctuated by the occasional panicky admonition of one of your fellow troopers to "SLIP. SLIP!" as canopies drifted into one another. In less than a minute we were on the ground. The general consensus was favorable. Here was an airplane in which you felt safe and comfortable and from which, though not as easy to get out of as the Dollar Nineteen, it was easy enough to jump. (Because of its builtet shaped rear end, the C-119's jump doors were slightly canted inward, and allowed you to fairly run right out the back end. This is what led to the recordbreaking pace of exit from the 119. It also led to lots of entanglements in the air and, believe me, there is nothing in the world anymore exciting than landing atop another parachute a thousand feet in the air, with your own canopy robbed of its air and collapsing around you, and having to welk off, knee deep in nylon, hoping that your parachute will reinflate!)

Unfortunately, Russ Dobyns' return to Pope was not as uneventful as our flight out had been. Arriving in the traffic pattern, he selected pear down, and nothing happened. A bushing had falled on the landing gear's jack screw and was stuck so tight that even the 3,000 pounds per square inch pressure of the hydraulics would not budge it. A direct patch-through to Dick Pulver, Lockheed's chief engineer, who was in Marietta, resulted in a lot of conversation and alternative methods for getting the gear down, all to no avail. The live Army Colonels from the Test Board were probably wondering about the wisdom of coming along on this flight without their parachutes but, for the record, they stated their confidence in the airplane. Dobyns flew around, burning off fuel, while the crash crew at Pope prepared for his arrival. The runway having been foamed and with just enough fuel for the landing, he set up on a long final. Seconds from touchdown, the wind shifted 180 degrees and the tower advised him to go around. Murphy's law upheld! As is so often the case in emergency situations, totally unrelated events seem to conspire to aggravate the original problem. Russ flew one of the tightest patierns seen at Pope and got it on the ground with all four engines turning. The landing was a pure grease job, the Herk skidded about 1200 feet before coming to a stop on the centerline. A lot of skin was shed in a shower of speciacular sparks and all the antennas were ground off, but the damage was limited to the outside. The airpiane was repaired sufficiently for the trip back to Marietta

by the next day. As dramatic as this was, we knew nothing about it and I had to wait until twenty-lour years later to lind out about the impressive return to Pope of the "Impressive Plane". My jump log shows that I had a further five jumps from the C-130. By the time I went through Jumpmaster School, in early 1958, the 130 was fully integrated into the taclical airliff forces. It had changed the concept of the Composite Air Strike Force from wishful thinking Io reality. With the C-130, the United States acheived global reach with its quick reaction forces. The changes this brought were swift and marked. The easy-going peacetime Army of 1956 and early 1957 disappeared under an avalanche of reorganization and the 130 airlifted CASF forces to Lebanon in 1958, its record in the intervening years has been one long, unbroken string of successes, in military, humanitarian and commercial endeavors.

Troopers of the \$2nd Airborne demonstrate the troop carrier accommodations of the C-130. For the purpose of this publicity shot, they are wearing Air Force parachutes, with no chestpack reserve chute and no combet equipment. (Lockheed)



C-130A

Though the two YC-130 prototypes were built at Lockheed's Burbank, California plant, production of all subsequent models was to take place at Lockheed-Georgia. The Lockheed plant at Marietta, Georgia is the largest of its kind in the world. It had been built during World War II and operated by Beil, which built B-29s under license from Boeing. At the conclusion of the war it was turned into a storage facility, only to be reopened by Lockheed in 1951 after they had received a contract to refurbish mothballed B-29s for the war in Korea. Lockheed also received a contract to manufacture B-47s under license. The Georgia Division's performance on this contract, in which 394 B-47s were built, resulted in the return to DoD of several million dollars in allocated defense funds. This was an unheard of event, before or since, and Lockheed executives were itching to get a contract for their super-efficient Georgia division. The award of the C-130 contract to Lockheed in 1952 ensured continued operation of the Marietta plant, though at the time no one imagined that it would still be producing C-130s 28 years later! (Company officials indicated that they would have been happy with a production run of 300 airplanes.)

The first production C-130 was rolled out of the Marietta plant on March 10, 1955. It made its first flight on April 7, immediately gaining the awestruck advocacy of everyone who watched that first departure. Test pilots Bud Martin and Leo Sullivan had it off the ground within 600 feet, crossing the departure end of the 10,000 foot runway with 2,500 feet of attitude!

There was just one major problem with the initial production Hercules. The three bladed Curtiss-Wright electric propellers refused to perform consistently. The T-56 engine is a constant speed engine which transmits its power through the props, which must act as transmissions with an infinite number of gearings, by means of controllable blade pitch. Pitch changes were electrically activated which always seemed to cause too much change, one way or another. Finally, one of the test airplanes was fitted with hydraulically-operated Aero-Products three-bladed props. These performed so consistently that all efforts to fix the electric props were dropped and the hydraulic model was adopted. The Air Force initiated a competition to determine which props would be used on future production C-130s. The winner was a four-bladed Hamilton-Standard hydraulic, which has been the standard prop for all 130s from the B model onwards. While the propeiler problem persisted, it caused a backup in the delivery of C-130s. This gave Lockheed a chance to identify and correct dozens of minor glitches that would otherwise have had to have been dealt with in the field. The result was an enhanced reliability record for the Herk when it entered service, beginning in December 1956.

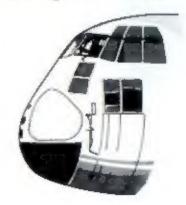
C-130A of the 463rd TCW at Hickern AFS stopover erroute to Ashiya AB, Japan, where the 463rd was based in the late fifties. (Derek Mau)





C-130A of the 317th Troop Carrier Wing, out of Lockbourne AFB, on approach to RAF Mildenhall, 1968. This aircraft was eventually given to the ill-lated South Vietnamese Air Force, (P. Bennett via R. Archer)

Early 'A' Nose



Later 'A' Nose





The first C-130 to be equipped with skils made its initial flight on January 29, 1957. A television camera was mounted under the right wing, outboard of the engines. The closed-circuit picture was viewed by Lockheed test engineers in the cargo compartment during the 51 minute first flight. This aircraft was later acquired by the U.S. Navy and re-serialised 158226. (Lockheed via C.B. Mayer)

The number five C-130A was initially delivered to the 3206th Test Wing at Egiln AFB, Florida in January 1956. It was later modified to JC-130A configuration and served at Hanscom Field in the Weather Research (Cloud Physics) role. Later still, it was modified to NC-130A standard and finally finished its career in 1978, with retirement to the boneyard at Davis Monthan AFB. (via Grant Matsucks)







shots. (via Grant Met-

suoka)



C-130D-50-LM of the 139th TAS, New York ANG at RAF Greenham Common for the big anniversary party thrown for the Herk in June 1979. First ski evaluations took place at Bemidji Lake, Minnesota in February 1957. The Ski Herk set a record for ski-equipped airlifters of 124,000 pounds the following February at Bemidji. The twenty foot long main skis weigh in at one ton aplece, and both nose and main skis will pitch up 8 degrees and down 15 degrees to accompdate landings on rough terrain. (M. Scharrings via N.E. Taylor)







NC-130A of the 4950th Test Wing, Aeronautical Systems Division, Wright Patterson AFB, Ohio, July 1976. (Dave Menard via Paul Stevens)

The same alreraft seen above ten years earlier, identified in this photo as a JC-130A, while working out of L.G. Hanscom Field. (via Paul Stevens)



JC-130A of the 4950th Test Wing as it appeared in May 1963 during an appearance at Friendship International Airport in Baltimore. "Local Yoket" carries the badge of the Air Force Systems Command and is configured for satellite retrieval duty. (yie Paul Stevens)





54-1632 was the prototype TC-130A and, later, the prototype RC-130A. It is seen here in the latter configuration, while assigned to the 1370th Photo Mapping Wing. Tail band initials signify Aerial Cartographic and Geodetic Survey. Airplane later served with the 706th and 704th TASs before being retired to MASDC in 1978. (Fred Roos via C.B. Mayer)

RC-130A of the 1st ACGS at Forbes AFB, May, 1966. This aircraft later converted to straight C-130A and served with the 143rd TAS Into the later '70s. (Jerry Geer)

The RC-130S is equipped with BIAS (Battletield Illumination Airborne System) in twin pods carried shead of the landing gear fairings. The pods carry 28 lamps, which produce a combined 6.14 million candlepower. It carries a crew of six, including, pilot, co-pilot, navigator, engineer and two illuminators. (Jim Sullivan)







DC-130A of the 11th TAC Drone Squadron, 355th TFW, Davis Monthen AFB, as it appeared in November 1971. The DC-130 is used as a launch and command transport for a variety of aeronautical drones, including reconnaissance, electronic intelligence, strike and largets. (Dave Menard via Norm Taylor)

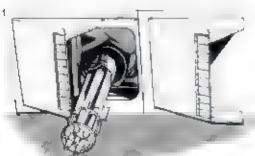




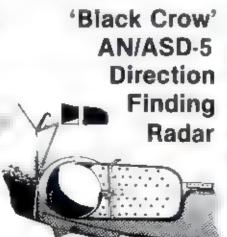
54-1626 served as the prototype AC-130A, while assigned to the 4950th Test Wing. Wright-Patierson AFB. OH, 1966-67 It was shot down over Vietnam in March 1972 (Grant Matsucka)

It was still assigned to the 4950th in 1971, though it had received the modified radoms when seen here on a tright out of Patusent River NATC during initial testing of the 105mm gun. Originally designated "Gunship II" (The AC 47 was Gunship I), the AC 138A was put together from leftovers, lested at Egim AFS and sent to Vietnam for a trial deployment in late 1967. The concept was so successful that a format RFP was put out in November 1967 and E-Systems of Dallas. Texas, was swarded a contract in December. By the end of the following year four AC 130As, modified from JC 130As, were deployed to Vietnam, with three remaining behind for crew framing until the following May when they too deployed to the combat zone. (Grant Matsuoka)

AC-130A, 55:0011 of the 711th SOS, 819th SOG at Egiln AFB Fleto #3. July 1978 it is armed with a pair of 20mm M-81 and a pair of 40mm cannon. The eighth AC-130A incorporated several new systems, including a digital fire control computer it was dubbed. Surprise Package and was so successful that the Air Force requested that the gunship systems program office provide an additional nine AC-130s in this configuration within three months. These were modified under the "Pave Pronto" program. (N.E. Taylor)



M61 20mm Rotary Cannon







C-130A of the 109th TAS, 133rd TAW as photographed in February 1971 at Minneapolis. 55-0023 was among the first batch of C-130s delivered to the 463rd TCW in December 1956. It was later modified to NC-130A configuration and may have been a participant in clandestine operations, as evidenced by the black undersides. (C.B. Mayer)

(Below Left) 54-1633 was assigned to the 180th TAS, Missouri ANG when this picture was shot in August 1978. It is one of the early C-130As to receive four bladed props. (Fred Roos via N.E. Taylor)

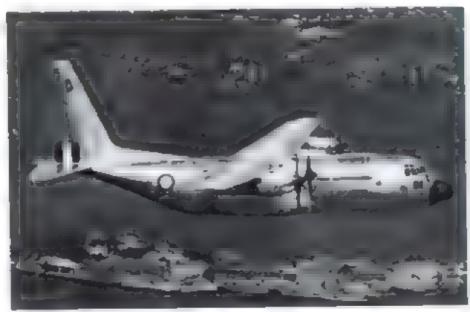
The seventh C-130 built was still on active duty with the 433rd TAW, Kelly AFB, TX as of May 1976, when this picture was taken. (C. Eddy via Norm Taylor)



(Below) C-130A-40-LM of the 142nd TAS, Delaware ANG, March 1972. It was later delivered to the South Vietnamese Air Force. (F. MacSorley via Norm Taylor)







The first Iweive C-130As for the Royal Australian Air Force were assigned USAF serial numbers from 57-498 through 57-509. The Austrialians coded A97-3205 them -3216. through (Lockheed via Norm Taylor)

C-130B

One of the things that has kept the C-130 going strong for over a quarter of a century is the constant improvement and adaptation of the basic design. The customers never seem to run out of new duties for the Herk, while Lockheed never seems to lack for innovative engineering to accomplish every mission tasked for the airprane. The first model change came in 1958, as the B model made its first flight on November 20.

The Bimode is generally considered to be the hollood of the C-130 line. While it retained the lower pay oad of its predecessor its engines were the more powerful 4 050shp T-56 A-7. The new four biaded Ham iton-Standard propsicul down on the noise level and vibration so pronounced in the earlier A models. The 6 also carried an additional 1820 gains of fue giving it a longer range in order to fully ut lize this long range capability crew bunks were installed which allowed for the carrying of a relief crew. The landing gear was also strengthened, as was the horizontal stabilizer. The former was in any cipation of the day when C-130s would be approved to carry higher gross weights, while the latter was a result of the ongoing test program, which had dentified possible structural weaknesses in the stabilizer. A models were not retrol tted with the new stabilizers, but were mitted to maximum appeal of 287 knots.

As was the case with the A model, the B was adapted to many missions, which spawned several new prelixes to the basic identifier.

Curtiss-Electric Hamilton-Standard Four-bladed Prop

The second C-1308 was modified to JC-130 configuration for use as an arborne satellite retriever. It is shown here during testing by the 6593rd Test Wing. (Note cameras under both wing tipe and stabilizer.) (USAF via Norm Taylor)







(Left & Above) One of the vital humanitarian missions performed by the Hercules involves tracking and measuring the intensity of hurricanes. LL Gregory V. Wootfon of the 53rd WRS is shown during the 1975 penetration of Hurricane Caroline. The WC 130B was the first of the Herks to be modified for hurricane hunting, entering service in 1962. The WC 130B illustrated above be onged to the 54th WRS. Keester AFB, Miss., In October 1973. (Lockheed, D. Kasulka via Norm Taylor)

The National Oceanographic and Atmospheric Administration operated 58-0731 with civil registration N6541C in 1972. It was affectionately dubbed 'NOAA's Ark'. (MAP)



WC-130B Observation Blister







C-1308 of the 57th TAS, 433rd TAW, AFRES, Kelly AFS, Texas had tall camoullage modified to show its home state. October 1971. (Norm Taylor)

(Above Leit) The office of this C-130B, 61-2647, seen at Offull AFB, NE 9 March 1980. (LTC George R. Cockle)

C 1308-70-LM of the Pakistan Air Force carried dark green cambullage. It was destroyed in July 1969. (via Norm Taylor)

(Below Left) 62-4141 was delivered to Pakistan under MAP, being operated by 8 Squadron of the PAF. Seen here at RAF. Northolt in April 1965. (5. Peltz via Norm Taylor)

5-101 was the first C 1308-70-LM delivered to the Imperial franian Air Force. If was operated as a standard transport and was later sold to the Pakistan Air Force, (via Paul Stevens)









Canada operated four C-130Bs, three of which were eventually sold back to Lockheed. The fourth was destroyed in April 1966. (RCAF vis Norm Taylor)

C-130B of the Venezuelan Air Force at Ketly AFB, Texas, December 1972. (Norm Taylor)

(Bottom Left) The three surviving RCAF C-1308s were sold to Columbia. One is seen here at Howard AFB, Canal Zone, 1868. (Thomas J. Suriak via Dave Davenport)

South Africa acquired seven C-1308s, all of which were operated by 28 Squadron, SAAF (S. Paliz via Norm Taylor)



Nautical Herks

The natural intra-service rivalry between the Air Force and Navy usually results in a great deal of resistance if either service is put in the position of having to accept an aurplane from the rival service. A notable exception to this aimost irrefutable rule was the Navy adoption of the C-130

Navy interest in the C-130 was sparked by the Marine Corps, which was looking for an essau I transport that could double as an aerial refuelier. The Air Force loaned the Navy a couple of C-130As, which went to Patuxent River NAS in 1957 for tests. The tests were predictably successful and the Marines piaced their order for 46 KC 130Fs. They began taking delivery in 1960, 1950 was also the first year that the Herk want to the Poles on skie. Twelve C-130Ds of the 61st TCS. Sewart AFB, Tennessee commanded by LtCdr. Wilbert Turk took on the job of trash hauting in the Antarctic The Job they did so impressed the Navy signal and the Navy had its own fleet of skiegui piped C-130s the following season. The C-130 has played the major resupply role in the Navy's operational at the Poles ever since with first LC-130Fs even fuelly being auppliented by LC-130Rs.

Another maritime mission that the Herk seemed ideally suited for was the long range search rote. The Coast Guard was quick to appreciate the attributes of the C-1308, which could be configured for search missions of up to 13 hours duration. They began taking delivery of their SC-1308s (later redesignated HC-1308) in 1960.

But the most dramatic feat the Navy has asked of the Herk has to be landing on a car rier. These lests were conducted as a result of the Navy's realization that they needed a replacement for the rivange and payload limited C 1 Trader. The airplane they used was a KC-130F. The only modifications made were installation of an anti-akid braiting system. area ler nose wheel orifice and removal of the wing-mounted refuelling pods. Pilot for the tests was LI James H. Flat by RI co-pilot was LICdr. W.W. Stovall, engineer was ADR-1 E.F. Brennen and the safety plot, who also checked Flatley out in the C 130 was Lookheed Engineering Test Pilot Ted Limmer vr. The tests were made on October 30. 1963. They are uded touch and goal full slop unarrested landings and auriches sans catabult. Weights were varied from a low of 85,000 lbs, to a high of 121,000 lbs. At the I ght weight. The KC 130F was stopped in Just 270 leet and launched from that soot with the aid of 40 knots of relative wind over the deck. A total of 29 touch and gos and 21 full stop landings and subsequent launches were made. The seas that day were relatively heavy with awaits up to 15 feet. Flat by a skill and airmanship that day earned him The DFC. The feasibility of using the C-130 for COD had been demonstrated, but the program went no further. Official reasons for dropping the idea were given as its being too risky. A more - kely reason is that the 130 was just too big to be stored in the hangar of on the flight deck. This would necessitate mandatory round trips, which would inhibit carrier flexibility. In any case, the COD version of the E 2 was in the works and the Navy decided to wait for 1





The second KC-130F (BuNo 147573) for the Marines. (via Dave Davenport)

KC-130F of VMGR-352, MCAS El Toro, California refuels a pair of F-8 Crusaders in the early '80s. (USMC)



(Above) KC-130F BuNo 149795 touches down on deck of the carrier Forrestal CVA-59 with propa already in tuit reverse. This technique alternative the atop landings of the Herk on the CVA. (Lockheed) (Below) KC-130F takes off from Forrestal. The winglip of the Herk cleared the carrier's Island by 15 feet. During these tests it carried the inscription; "Look Ma. Ho Hook!" on its starboard side. (Lockheed via Dava Davanport)

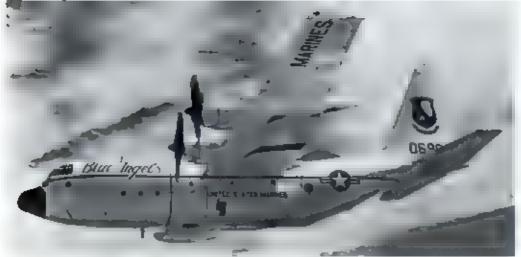


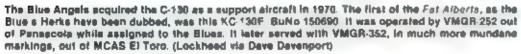
The U.S. Coast Guard has operated the C130 since 1960, beginning with the HC-130B. (right, USCG) A variety of color schemes have been employed, ranging from the natural metal airplane at right, to the white birds below, all of which are trimmed in Orange (FS 28815) and blue. The HC 130B below carries Coast Guard registration 1351 Its serial number is 62 3755, and it was delivered in February 1983. (LTV Electrosystems via C.B. Mayor) The HC-130H at bottom of page was delivered in May 1968 and is serialled 87 7184. It has the distinction of being the 1,000th Hercules built. (C.B. -





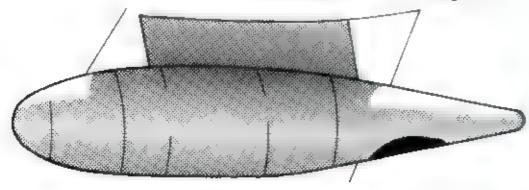






VXE-8, home-based at NAS Point Mugu, California, deploys to Christchurch, New Zealand in October of each year to support the summer scientific operations of the National Science Foundation, which funds the Navy "Icabird" operations. The Antercite provides the toughest environment for Hercules operations. It is one of the world's great deserte, receiving no more than 2 inches svarage annual precip, and operations are conducted off of ica up to 12,000 feet above see level. The changing surface of the los, often concealed from pilots by blowing snow, is a regular cause of damage to the LC-130Fs and Rs that the Navy has operated in the Anterctic since 1962. LC 130R of VXE 8 is seen of floading cargo on the Anterctic ica. Colors are light gray bottom, dark gray top and orange tall and wing tips (Lookheed)

KC-130F Refuelling Pod



City of Christohurch, an LC-130F, came to grief in the Antarctic, burning at McMurdo in 1971 (Abbot Hafter via Paul Stevens)

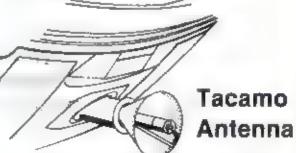




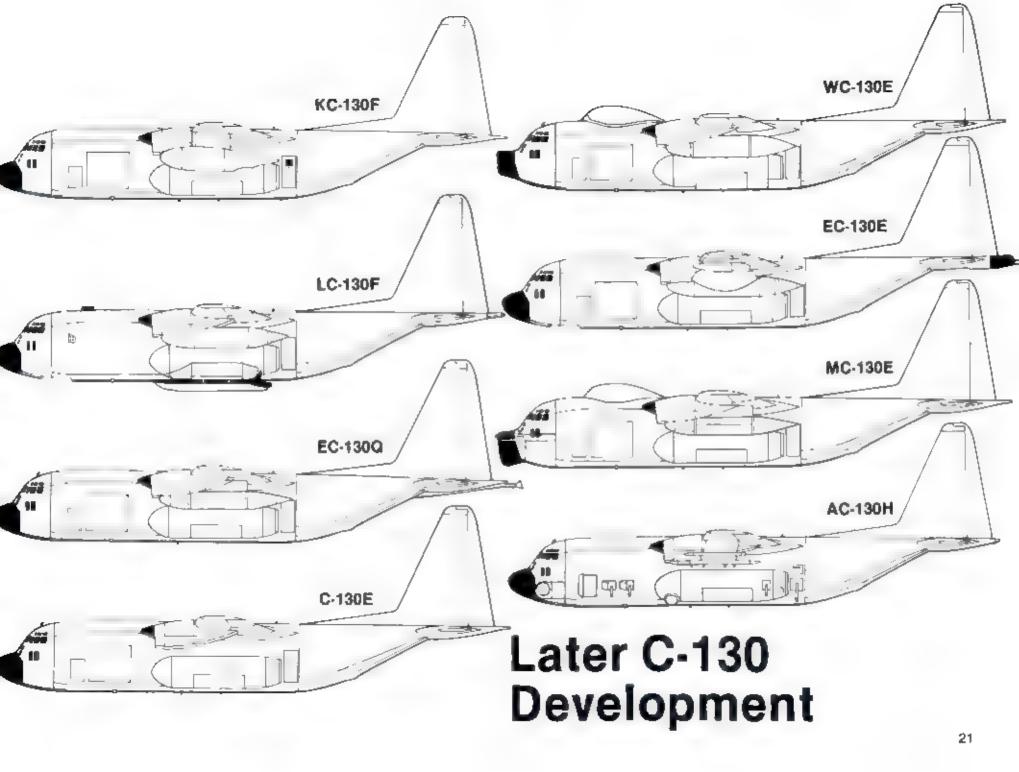




DC-130A of Nevy Squadron VC-3, based at NAS North latend, was originally a C 130A delivered to the USAF as 56-0491. Nevy assigned BuNo 158229 to this drone launcher. The colors are grey and white with black fuselage band. The wings, horizontal taligrams and tall stripe are chrome yellow, the rest of the tall bright red.



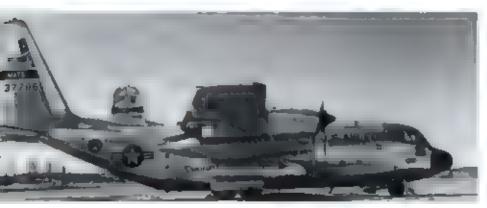
EC 130Q of VQ-4, home-based at NAS Patuxent River seen at RAF Mildenhall, 1972. The Navy refers to the EC 130 as 'Tacemo and operates it as a manned communications relay link with the strategic submarine force. It can remain alrhome for up to 12 hours and is designed as a survivable portion of the strategic communications network. The constrained device under the rear fusetage is the main antenna. There are also extra wires running to the tail and a small whisker antenna at the tailtip. (P. Bennett via R. Archer)



US AA TOM

The liret C-130E is rolled out of the plant. First flight took place on August 15, 1961, after it was delivered to the Air Force for testing on June 1, 1961. It was teter modified to a JC-130E, then, later still, back to straight transport version. (USAF via Norm Taylor)

C-130E-90-LM of the 1501st ATW, Travis AFB at Elmendorf AFB, Alaska, May 1964. (Norm Taylor)





C-130E

As it became more and more apparent that the vital interests of the United States were going to be placed in jeopardy by Communists the world over the need for longer ranged airlitters took on increased significance. The Bimoder was the first of the beefed-up Hericules, but compared to what Lockheed's engineers did for the E, the Biwash Limich different from the A.

Maximum ramp weight of the C-130E soared to 155,000 bs an increase of 20,000 bs over the 'B'. Its fuel capacity was increased by over 17,000 bs. It was capable of non-stop trights to Europe with a 35,000 ib, payload and trans. Pac fic fights could be made with one stop. At of this weight addition required extensive strengthening of the basic antrame especially in the area of the wings and landing gear. More powerful T-56 A-7A engines of 4,050ship were used and a pair of external tanks with a capacity of 1360 go ons were slung beneath the wings between the engines. The first C-130E was do vered to the Air Force on June 1, 1961. When the last of 488 C-130Es rolled off the the production time it had more than doubled the combined production run for the Alliand B mode's. Only the 'H' model would be more numerous.



C-130E of the 314th Troop Carrier Wing at Forbes AFB March 1966. This aircraft later destroyed when a prop went into reverse on take-off from Tainan AB, Taiwan in 1969. (Jerry Geer)

Airilit Pentagon at Pope AFB, NC in 1965 shows then operational USAF transport types including a venerable Dakota. (USAF via Davenport)



C-130E-85-LM of the 779th TAS, homebased at Pope AFB. NC on the transit line at Elmendorf AFB, Alaska, July 1968. (Norman E. Taylor)

C-130E of the 345th MAS, 374th MAW, Clark AB, Philippines et Misawa AB, Japan, October 1975. (Norman E. Taylor)

(Below Right) C-130E of the 313th TAW, Forbes AFB, Kenses during a September 1972 demonstration of rocket assisted take-off. (Fred Roos via Norm Taylor)

C-130E of the 776th TAS, 464th TAW Pope AFB, NC during LAPES (Low Attitude Parachute Extraction System) delivery in March 1955. He is several feet too high, which is liable to cause the load to dip its leading edge, dig into the ground and roll itself up in a ball of junk. (USAF via Devenport)



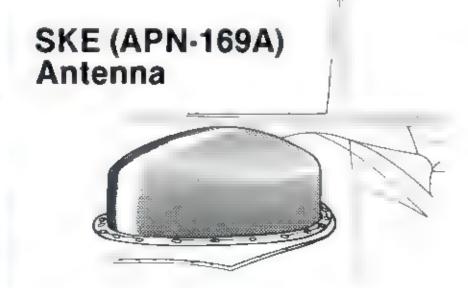








Proof that the Herk can bite back if improper technique is used. C-130E 63-7801 was destroyed on landing at Pope AFB, June. 1967. (Devenport)



Front office of the C-130E, with SKE scope prominent stop panel. (Author)







C 130E in the desert camoutlage that was applied to at least 30% of the Hercules fleet operated by USAF Colors are tan and medium brown, low visibility national insignia and codes are also used. (R. Archer)



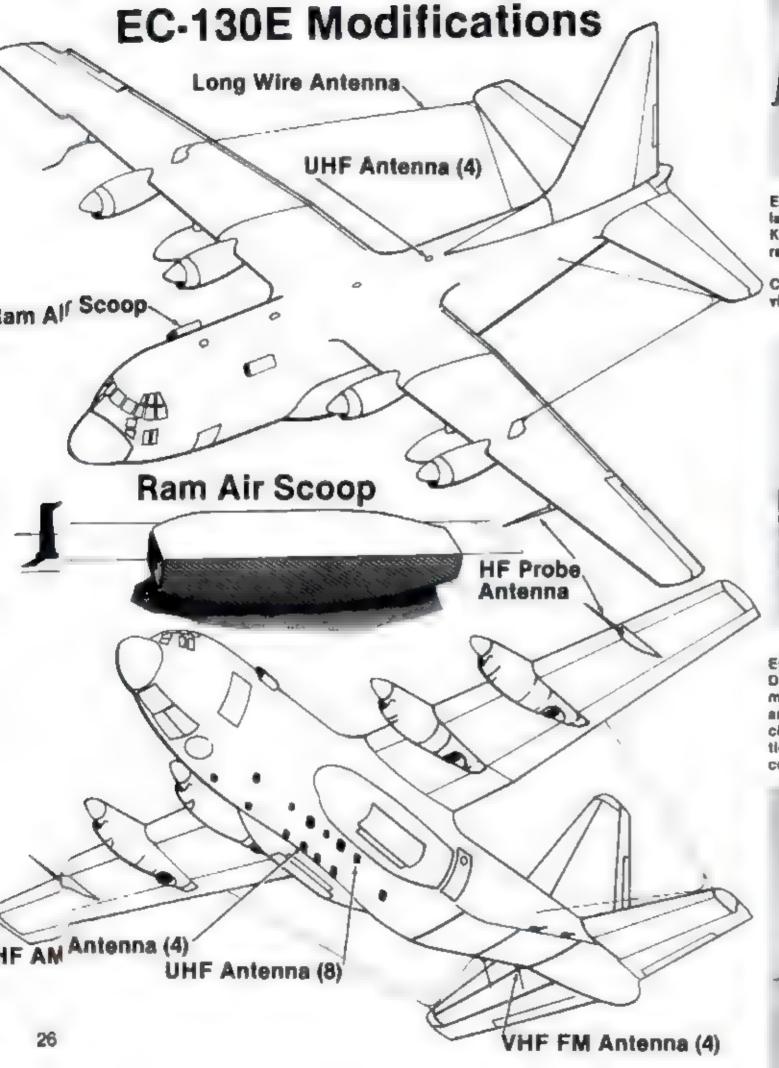
& Control Center)



queen' during its service at Pope. (P. Bennett via R. Archer)
(Below Left & Below) 62-1820 was the lead strongt in the EC-130 program. Seginning in 1966, 10 alreraft were modified. They saw extensive duty in SEA, flying from Korst RTAS with the 358th TFW, where they carried 'JC' tall codes. Four were later further modified with desh 15 engines.

and inflight refuelling capability. (R.J. Wilmouth via Norm Taylor).







EC-130E, 62-1809, served with the 7th ACCS, 432nd TRW in combat in 1971, later converted to EC-130H and served with the 7th ACCS, 552nd ABEWG, Keesler AFB, Miss. It was lost in the transan Desert in the ill-fated attempt to rescue American Hostages, 25 April 1980. (Davenport Collection)

C-130E-II, 62-1820, while assigned 7th ACCS, 432nd TRW, Udorn RTAB. (USAF via Davenport)



EC 130E during refuelling from a tanker belonging to the Aeronautical Systems Division at Wright-Pat. EC-130 carries a crew of 4, plus 12 Battlestaff Crew manning the Capsula, which has 4 each HF Transceivers, VHF Transceivers and FM Transceivers, 8 UHF Transceivers, 2 secure Teletypewriters and 14 channels of Voice/Data Recorders. Its missions include management of tactical air resources, direct air support of ground forces and providing integrated communications. (R.J. Wilmouth via Norm Taylor)





MC 130E 110 LM, 64-0568, of the 8th SOS, 1st SOW. Hurburt Fleid. Egilin AFB, Ft. It carries the special low-reflectivity camoutlage paint. (Norman E. Taylor)

MC-130E, of the 6th SQS, 1st SQW began life as a C-130E, then received the dash one conversion (which later became the MC-130E) and, in 1978, the H (Combat Talon), Combat Talon Blackbirds have the Fulton Recovery System which allows in-flight recovery of personnel from the ground and Terrain Following Rader which allows allows the operations to within 250 feet of the ground, (USAF via Davenport)

MC 1305 of the 5th SOS refuelling from KC-B7L, photographed by Captain Richard L. Bakke, who was KIA on the trantan Hostage Rescue Mission, 25 April 1980. (via Grant Mateucka)







Still another role for the ubiquitous Hercules is that of firelighter. The first MAFFS (Moduler Airborne Fire Fighting System) tests were flown at Execution AFB in 1971. More comprehensive tests were run in 1973 at Marana Air Park, Arizona, which resulted in acquisition by the U.S. Forest Service of several of the FMC Corp. MAFFS units. These are pre-positioned in anticipated hot: epots, if a fire warrants the use of the C-130, they can up-load the MAFFS patiets quickly and the mission can be flown with minimal additional workload the basic crew. MAFFS units can be turned around in 10 minutes. They can dump up to 3,000 gailons of bright orange fire-retardant figure nitrate compound in 10 seconds. The nitrate compound acts as a fartifizer when the lire has been extinguished. In these shots, C-130s of the 148th TAW. California ANG, (above) and 138th TAQ. Texas ANG (right) are flighting a 1979 fire in the San Bernardino Mountains. (USAF) Both carry orange temporary markings. The California Herk is named Ain't No Big Thing.

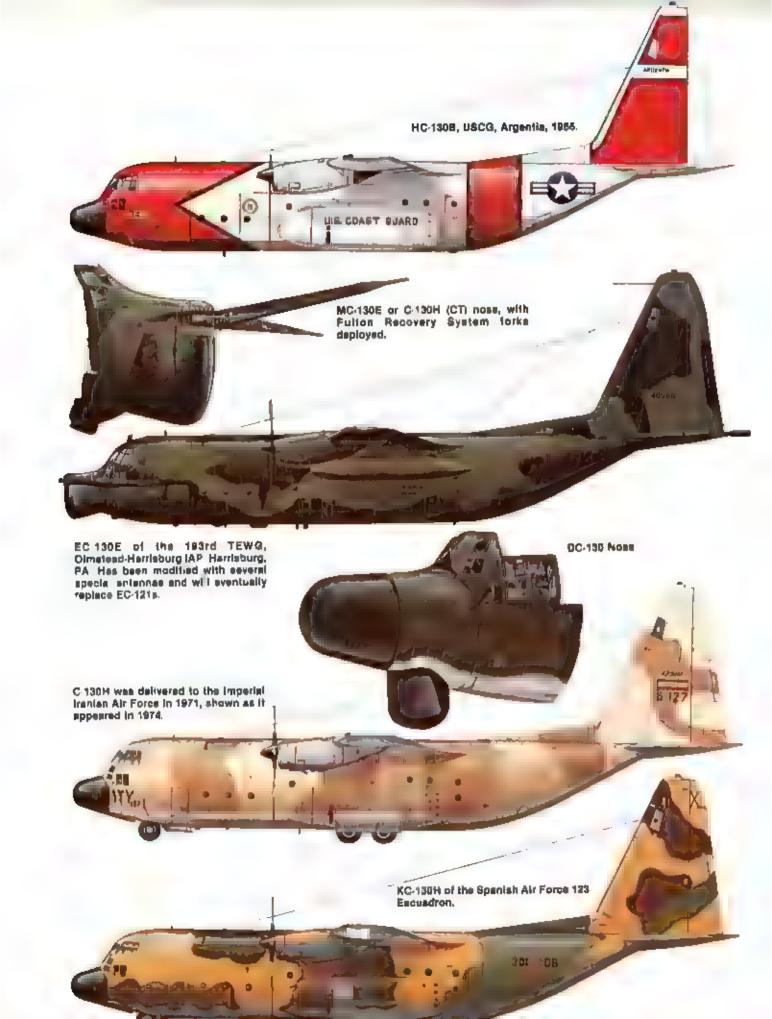
An aerial delivery technique mastered by the Herk is LAPES, in the photo below, a record-setting 50,150 fb. load is pulled from the cargo hold. This heaviest of LAPES loads skidded to a halt after 700 feet. The lest was conducted by the 8511th Test Group (Perschute) at El Centro, California. (Lockheed) in the photo at right, a Sheridan is about to arrive on the drop zone. (USAF)





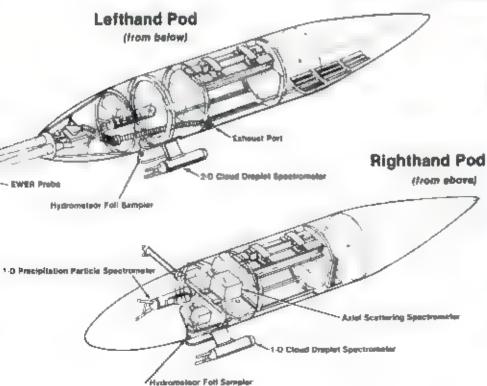








AEP Pods



C-130E, 84-0571, was modified for the Aggravated Erosion Program. The modification consisted of adding special mateorological instrumentation, (most of which was contained in the two wing-mounted pods) and three operator stations, installed on paillets, in the fuselage cargo area. The right and left hand outer wings are of the HC 130H type which provide for hard points at the pod wing mounting locations. (LTC George R. Cockia, USA





C 130F, A97-167 (USAF E5-12898), of No. 37 Squadron, Richmond RAAFB, Australia (Lockheed via Davenport)

(Balow Left) C 130E-105-LM was bought by the Swedish Air Force in 1965, then by the Swedish Rad Cross who operated it in Glaffy with civil registration SE XBT until 1968. It was returned to the Air Force and carnouflaged in 1976. [Capt. Humglot via Norm Taylor]

C-130E of the Force Aerea Brasileira at Rectie, Brazi 1968. It was tool in December 1969 (Antonio Linharea via Davenport)







C-130E of 16 Squadron, Royal Saudi Air Force, at Kally AFB, TX, October 1871. (Norman E. Taylor)

C-130E of the Fuerza Aerea Argentina's 2 Grupo de Transport, 1 Brigada Aerea, operated from El Palomar Buenos Aires. TG-61 was the first Herk acquired by Argen-tina (Reinhard via Taylor)

The C-130H

The H model of the Herculea is the penultimate version of the military 130s. As such it had become the most produced of a 130 models, with orders for 565 as of the end of 1979. This atest rendition entered production in 1964 and has continued to benefit from advances in the state of the art. The H boasts increases of 26% in pay pad 11% in speed, and 52% in range over the A model, while the takeoff distance requirement has been decreased by 17%.

These improvements have come as a result of the continuous efforts of Lockheed's angineering departments, coupled with Allison's improvement of the time-tested 1.56 engine. The latest version of the Tis6 for the Hercules is rated at 4.950 eship for take off and 4.508 in hight. This allows a max take-off weight of 155,000 lbs, and a max cruise speed of 312.

n order to accommodate the greater weights a lowed by the uprated engines. Lockheed has maintained an on-going structural improvements program. This program is responsible for the improved center wing box, which has increased the life span of the 130 while giving if the ruggedness necessary for higher pay out missions. The new wing structure has been latigue tested to 40,000 simulated flight hours. At the current utilization rate, this will mean that you can plan on seeing 130s plying the airways of the world was into the 21st century. The new wing box has been retrofitted to a liprevious Air Force versions, with the exception of the Airodals and to the 130s of Australia, New Zealand Brazil, Iran, Pak stan, Saudi Arabia, Indonesia and Columbia.

The wing improvements did not stop with the center box, which was improved in 1989 in 1972 the outer wing penels were upgraded to the same fatigue standards. Over all wing structural aluminum alloy has been upgraded to the new stress-corrosion resistant 7075-T73 material with the latest sulphuric acid anod zed surface as a base for a newly developed polyurethane coating. In addition, wing box structures were lay surface asseed on assembly with a corrosion nhibitive polysurphide sealant. Structural fasteners were well-installed with like material External joints and seams are protected with environmental aerodynamic smoother searant. Added corrosion protection was given to the integral wing fuel tanks with the add tion of a fuel boost pump actuated water removal suction system, which had been proneered in the design of the mammoth C-SA.

Perhaps the most dramatic improvements in the state of the art have come as a direct result of our manned space vehicles programs. The miniturization and enhanced reliabilities

ty required for these programs have provided a connucopia of technology for all aspects of modern life, but in no case has there been greater benefit than a the area of avionics

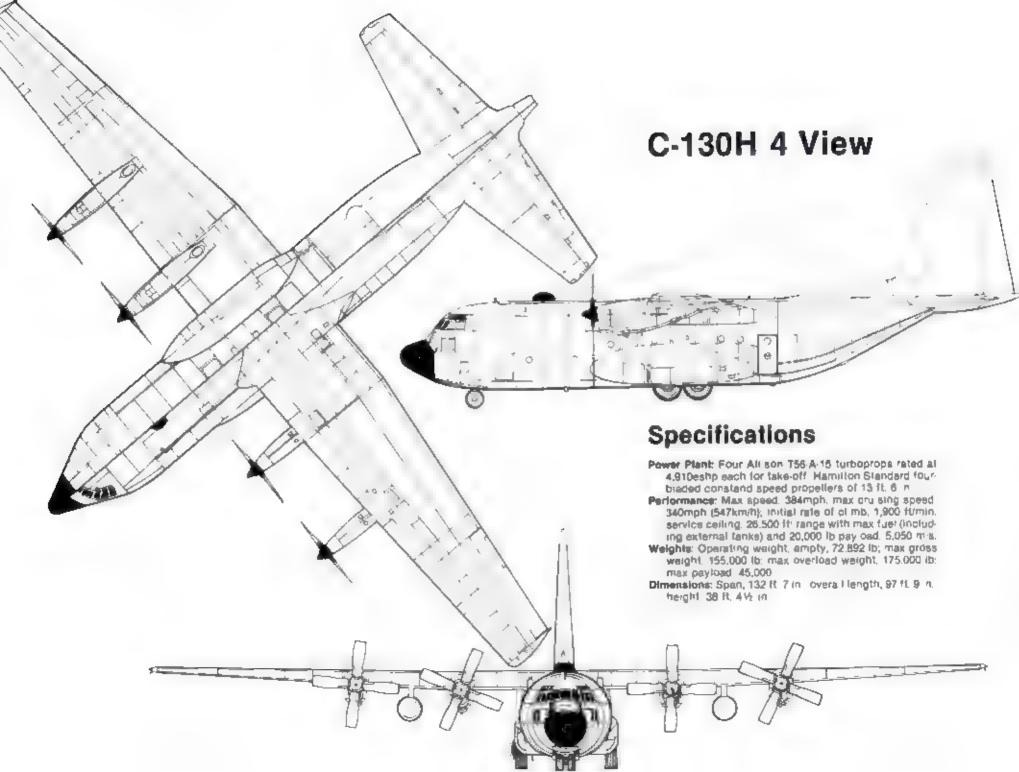
The C-130 has provided a pratform for all of these changes, spanning in its ife the era of vacuum tube technology right through today si integrated circuits. The Himodels have the ANIAPO 122 (V)S Search and Weather Radar dual 51V-4 Gide Slope Receivers 51Z 4 Marker Beacon Receiver ANIAPN 171 Radar A timeter ANIAPN 169A intraformation Positioning Set, ANIARN-97 Termina, Approach Landing Aid (Radar LS), ANIAPN 147 Doppler Navigator ASN 35A Navigation Computer the Air Force Standard Fight Director the ANIAPN 26 (V)8 Crash Position Locator and the Monitair Angle of Attack and Stall Warning System.

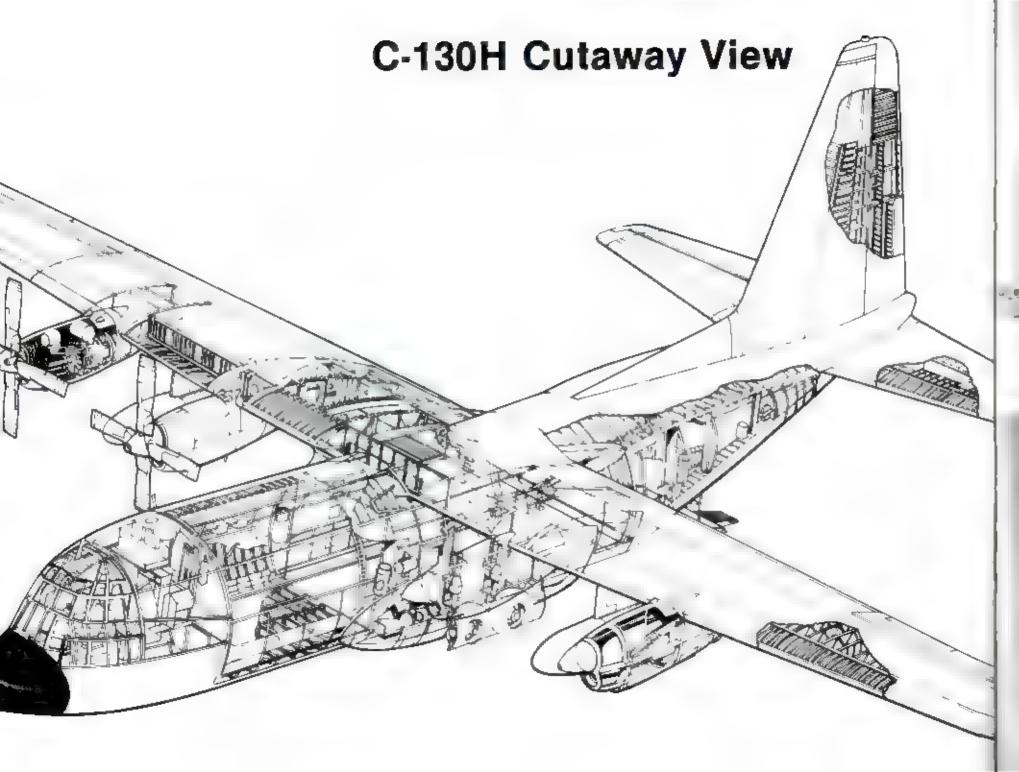
Other improvements incorporated in the latest 130s include a new auxiliary power unit the model GTCP 85 180C. The new ArResearch APU is located in the landing gear pod which has been extended lorward 20 inches to accommodate it. The single package APU is flight operable to provide additional electrical power to the C-130. The flight control system was improved with the addition of dual hydrau in systems driving tandem rudder control actuators and alteron and rudder actuators have been improved through the use of new fatigue-resistant materiats. The three hydraulic systems—utility, emergency and booster were sympthied and improved for greater reliability and botter backup capability. The landing gear wheels are now made from forged a um num for improved fall gue resistance and the multi-disc brakes have a modulating individual wheel control antiskid system for increased brake, ife and decreased lade during hard braking. The newest arround tioning system, developed for the S-3A Viking, has been likewise incorporated in current Herks.

The proof of the continuous improvement of the basic C-130 design has been its ongoing popularity. Not only does it continue to add new customers to the Lockheed fold, but the old customers keep coming back for the newer versions. The Air Force has sponsored programs to develop replacements for the C-130 and two manufacturers have built and extensively tested prototypes for 130 replacements. In spite of this, they keep coming back to the 130 its basic design has proven so adaptable to change that the per unit price just goes down (when adjusted for intiation). It is vable to be several years before someone comes up with the technology to finally render the remarkable Hercules obsolete Unit then its domination of the world tactical air. It scene is likely to remain absolute

HC 130H 110-LM at Egiln AFS, Florida. First flight of the HC-130H was December 8, 1964. It entered service with MATS ARRS in 1965. (USAF vis Norm Taylor)











HC-130H-120-LM of the 129th ARRS, Cal ANG, at Davis-Monthan AFB, July 1979, (8. Rogers, via Norm Taylor)

HC-130H with its 18 foot-long aluminum recovery forks deproyed for a "anatch" using the Fulton Recovery System. The eystem uses a hellum balloon on the end of a 500 foot nylon line, with the 'snatchee' attached to the bottom end via harness. Herk will approach at 140 to 180mph, lock the line between the torks and reel in the load with a winch through the open rear cargo ramp. To prevent the line fouling the props, in the case of a miss, a pair of libergless lines run from the nose to the wingtips. The system has been proven in several live pickaps, including a dual simultaneous snatch. (Lockheed)







HC-130N-465-LM of the 71st ARRS refuelling an HH-3 helicopter over Alaska, February 1978. (USAF AAC via Norm Taylor)

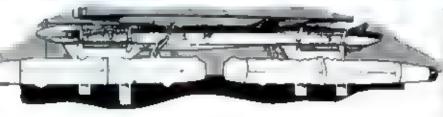
HC-130P-130-LM of the 129th ARRS, California ANG, Hayward ANGB, Cat., March 1977. (B. Rogers via Taylor)

HC-130N-165-LM landing at Kadena AB, Okinawa, Coincidental with its acquistion of the HC-130, the ARRS also received its first helicopters, the HH-3C. If immediately set about the lask of providing an aerial refuelling capability for the helicopters, with the HC-130 as the tanker Original Intention was to give the helicopters world-wide range (this was successfully demonstrated with a non-stop flight from the East Const to Partia), with a prime objective being recovery of astronauls. The HC-130N was the initial tanker version (its capacity was similar to the KC-130F. The HC-130P has more powerful engines and additional fanker capacity with fuselage tanks added. (S. Ohtaki vie Taylor)





AC-130H of the 4950th Test Wing, Aeronautical Systems Division, Wright-Patterson AFB, February 1977 69-6577 began life as a C-130E and then to AC-130H in 1973. (R.J. Mills. Jr.)

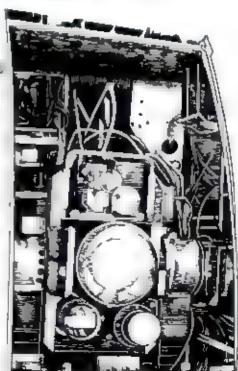


AN/ALQ-87 ECM Pods

Forward Crew Entry Door

AN/AJG-24 Stabilized Tracking Set, AN/ASG-145 Low-Light Television and AN/AVG-19 Laser Target Designator/Ranger







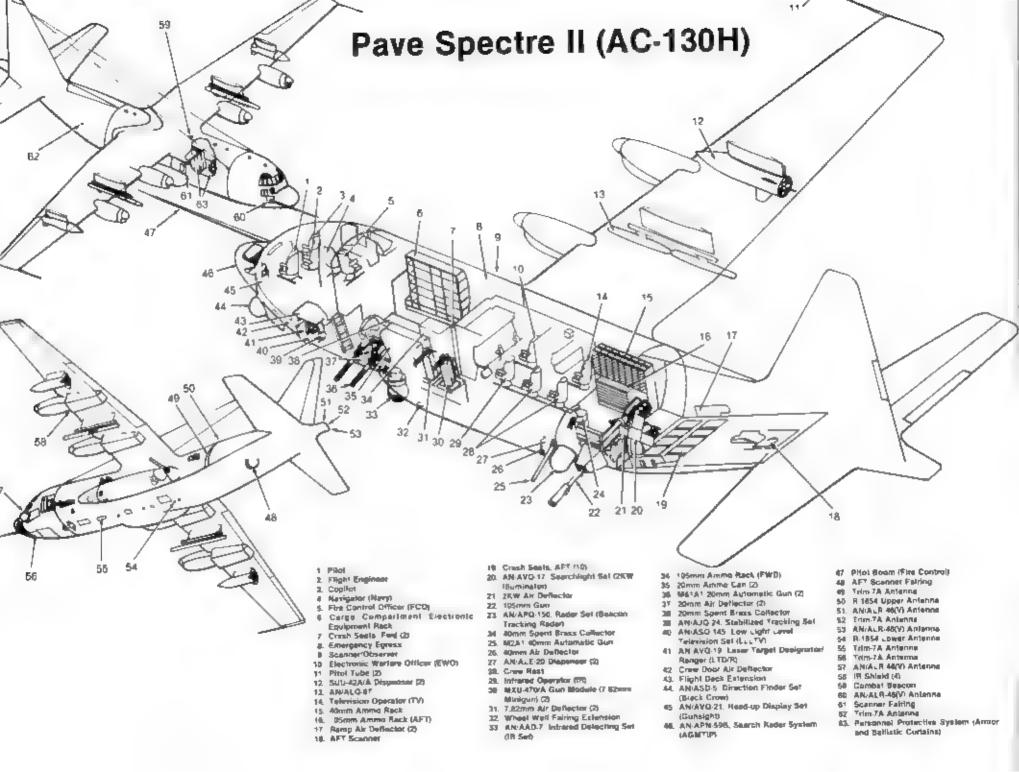


The follow-on program to Pave Pronto gunships was the Pave Spectre modification program begun in 1972. Under Pave Spectre and Pave Spectre It (AC-130E and H respectively), the Hercules was given greatly increased firepower, sensing equipment and defensive devices. AC-130H-160-LM at the 18th SOS, 1st SOW, Hurlburt Field, Egiln AFB, Florida, Merch 1980. Rare look at the starboard side of a gunship shows the scanneriobserver position above forward portion of wheal well fairing. (Norman E. Taylor)

(Above Right) One of a pair of M81A1 20mm guns carried by the AC-130. (R.J. Mills, Jr.)

Forward tussings of AC-130H, 89-8572, which was delivered in August 1969 as a C-130E, later modified to AC-130E and then upgraded to AC-130H in 1973. AN/ASD-5 Black Crow Direction Finding Set is carried on port side of fussings under cockpit. (R.J. Mills, Jr.)









Hercules W2 of the Meteorological Research Flight, RAE Femborough, landing at RAF Mildenhall, 1977. The former RAF C-130K has been extensively modified for its current mission. Mode include 22 foot long nose probe, which necessitated moving the rader antenna to a pod stop the fuseinge. (P. Bennett via R. Archer)

(Above Right) The C-130Hs of No. 40 Squadron, Royal New Zealand Air Force, Whenuapa: RNZAFB, Auckland City, N.Z. in July 1969 (RNZAF via Davenport)

(Balow) The C-130Hs of the 20th Wing, Royal Belgian Air Force carry the basic USAF camouflage colors and patterns. Note Loran antenna atop rear fuselage, Paris, June 1977. (F. Humblot via Norm Taylor)







(Above) Portuguese Air Force C-130H, Portugal has five Herks, all limished in basic USAF camouflage. (H. Scharrings via Norm Taylor)

(Left) Royal Hellenic Air Force C-130H at Mildenhell, 1978. This is a late model 'H' detivered in 1977 in USAF colors. (F. Bennett via R. Archer)



Denmark's 721 Squadron operates 3 C-130Hs in dark graen camouflage with daygle nose, fuselage and wingtip bands. The Hercules has had a profound atfect on the economic life of all of the free world, providing a desperately needed boost to US balance of payments and giving underdeveloped countries the means to hasten development of their own resources, Though the mejurity of the Hercules fleet worldwide carries warpaint of one variety or enother, most of the missions per formed by that fleet are far more humanitarian in nature than those of any other sircraft flying today, commer cial or military. (Lockheed via Davenpori)







C 130K of No. 35 Squedron RAF at Parts, June 1977 in recent RAF camoutlage scheme of green and grey. (F. Humblot via Norm Taylor)

(Above Lett) C-130H of the Abu-Dhabl Air Force carries an unusual camouflage scheme of sand and dark green. This is the second half of Abu-Dhabl's C-130 fleet (Lockhaed)

C-130H of the Egyptian Air Force carries civil registration for international flights. It is in camoutings scheme peculiar to Egyptian and Morrocan 130s of cream and tan overall. (C. Eddy via Norm Taylor)



C-130K of RAF in earlier camouflage of dark earth and mid-stone with black undersur-faces (MOD via Davenport)



C-130H for Bolivia's Transporte Aereo Militar The first of two C-130Hs for Bolivia, (Lockheed via Davenport)





(Above Left Selow Left) Israel has operated the C 130 for several years, the first of the ID-FAF Hercules coming directly from USAF inventory (Note USAF camoullage on Israel) 130 at left at Ben Gurion Airport, Tei-Aviv.) Most Israeli 130s are finished in desert camoullage and carry civil registration. In one of the most acclaimed rescue missions in history, the Israeli Air Force flew a force of IDF commandos over 2400 miss to Entebbe Uganda to rescue hostoges that were being held after the hijacking of an Air France flight from Tel-Aviv. Operation Thunderbali on July 4, 1978 was one of the Herk's finest hours. (P. Bennett via R. Archer, R. Archer via Devenport and via Devenport.)

(Below) C 130H 115-LM of the Royal New Zealand Air Force at the international Air Tatloo, June 23-24, 1979. RAF Greenham Common. England Twenty-seven Herks from 15 different countries showed up to celebrate the silver anniversary of the C-130. In splie of the fact that this 130, delivered in 1964, had over 10,000 hours on its airtrame, it was abill adjudged the cleanest Hark in attendance and was awarded the Concours of Engance trophy Colors are white, gloss gray and blue trim. (H. Scharrings via Norm Taylor)





Combat

Far from being, ust the penultimale trash hauter of the entire war zone the Hercules may have been the most versatile arroraft in the war in Southeast Asia. Not only did it ploneer aerial delivery techniques that ranged from ground level (LAPES) to over 10,000 feet (AWADS), it acted as troop transport paratroop platform ambulance, command and control platform gunship, drone launcher tanker rescue and recovery vehicle weather record and, findly when it was time to go into Hano) to bring the POWs home, the Herk was the first a roraft to land at Gra Lam.

The LAPES method of derivery is covered elsewhere in this book. AWADS was instituted during the Spring 1972 NVA offensive when AA in South Vietnam increased to a level of intensity that forced the relatively vulnerable C-130s to a fitudes above 10,000 feet. Using onboard radar and computers, the nay gafor would use offset aiming points to release the load. Special cushioning on the patiets allowed use of high speed parachutes, which he ped negate the vagaties of unreported towalf tude winds. These loads smacked into the drop zone at better than 60 mph. They were 90% accurate with most misses occurring as a result of parachute matternors.

Another targety unreported C-130 activity concerned their annalung efforts of specially modified WC 130s operating from udorn AB. The and from 1967 through mid-1972 Silver tod delf area were dropped into their plocking clouds with mixed results. This in an effort to impede the flow of supplies down the Trail.

The Hercules was also used as a bomber dropping 15,000 pound bombs during the South Vietnamese invasion of Laos. These proceduaters were dropped on suspected troop concentrations and had the residual effect of creating instant hercopter landing zones. The USAF lost 53 C 130s during the riparticipation in the Vietnam War. Many of the aurityons were furned over to the RVNAF and one of these set an all-time record for passengers on its last flight from Tan Son Nhuli AB. April 29, 1975. The C 130A was roaded with 452 people including 32 in the cockpit. It flook over 10,000 feet of runway to become aurborne and landed at utspace. The and 31/4 hours later. This brilliant piece of a rmanship was performed by RVNAF. P. Major Phuong and he did it without benefit of a colpital fruly herculean affort by both simplane and profit.



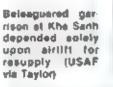
C-130B, 58-754, of the 774th TAS' 463rd TAW out of Clark AB. Philippines, during conveyer deployment to Visitnem in 1968. Typical combat sirstrip Herk operated into and out of throughout the war. (USAF via Davenport)



C-130B from 772nd TAS, 463rd TAW at Phu Cat AB, RVN, February 1971 (Norm Taylor)

Another squadron from the 463rd, the 773rd, supported the Marines at Khe Sanh in 1968 Marines referred to the big transports as 'morter magnets'









HC-130P refuels HH-3E off the Vietnamese coast, 1969. This team played the major role in rescue of downed strmen in SEA war. (USAF via Taylor)



HC-130N at Taxibil, 1978. (Col. Don Kutyna)



C-130E 64-9515 'Greybirds' from E Flight were the aircraft used for clandestine operations. Into Leos. Cambodia and Points North Note that the national insignis is close by the paratroop door, where it can be easily covered. (Dave Davenport)

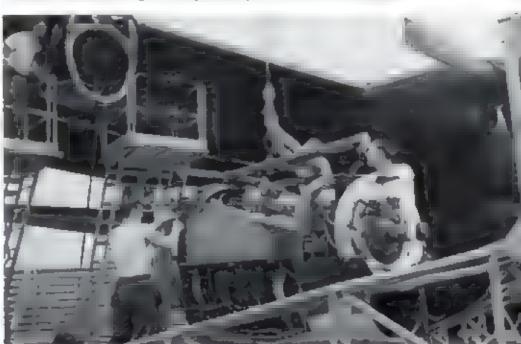
C 130Es of the 345th TAS, 314th TAW, out of Ching Chuan Kang ROCAB, at Firebase North, Danang, RVN in August 1970. A graphic exemple of the reliance on the C 130 for combal shrift and of the weather the 130 operated in during the Vietnam War. (Davenport Collection.)





C 1308, 58-0743, came to grief at Tan Son Mhut AB during the Tel Offensive of 1968. (Davenport Collection)

AC-130A of the 15th SOS gets an engine change at Ubon, June 1959. (USAF)





HAVE A NICE WAR





C-130 ABCCC aircraft were the airborne command posts of the air war in Southeast Asia, They carried call signs such as Alleycat, Moonbeam Cricket and Husboro, and directed the ebb and flow of serial forces. (USAF)





AC 130A of the 16th SOS, 8th TFW at ubon, RTAB. 1970, The Exterminator was applied in red and white. It was 84-1628 and was code of FT. (Davenport Collection)

AC-130A: 56-509, of the 16th SOS, 6th TFW over Leos in 1972. Standard USAF camoultage on top surfaces, with black bottom and vertical surfaces. "FT" and serial in red. (Devenport Collection)



16th SOS AC 130 climbs out over the eleaming jungles of Thallend during the 1972 SEA fighting, (USAF)

Details of Initial Installation of the 20mm vulcan cannon in the first AC-130A. Also visible are the 7.62mm miniguns. (USAF vis Norm Taylor)





AC 130A of the 16th SOS, 8th TFW at Ubon, RTAFB, Thelland, April 1969. Standard USAF camoullage carried or upper surfaces, flat black under and on vertical surfaces Red codes on tail. (At Piccirido via Norm Taytor)

AC 130A, 54-1826, at Ubon ATAFB, 1968 Devastating offec tiveness of gunships was demonstrated in Operation Commando Hunt, which was the attempt to destroy suppiles marshalled in North Vietnam with Impunity under the protection of LBJ's bombing hatt of 1968. Commando Hunt took place along the Laotian Ho Chi Minh trail. It destroyed an estimated 66% of all supplies put into the pipeline. Gunships accounted for about half of this (Norm Taylor Collection)





(Below) During the oil exploration boom on the north slope of Alaska, the rugged depends lity of the Marcules made it the premier airlifter for the oil fields. This t-100 was operated by interior Airlines from Anchorage, July 1972. (Norman E. Taylor)



L-100-20 stratched version of the commercial Herk operated by Red Dodge Aviation on lease from Flying W Alnways, Anchorage, May 1969. (Normen E. Yaylor)



(Above) L 100, N9263R Aleska Airlines, Anchorage, Aleska, 1966 Four different airlines have pwited this Herk. (Lockheed via Davenport)

The Commercial Hercules

The most successful transport aircraft in history, the DC 3/C 47 achieved much of ital popularity and longer by through mitilary production and civilian utilization. Mindful of the tessons in this, the engineers at Lockheed decided to submit the C 130 for civil cartication in the mid stickles. This would ensure continued use of retired military aircraft and might possibly open new markets for sales of a civilian version of the C-130.

The first civil version of the Mercules in the Mode 382 L 100 was subsidized in large measure by the sub-contractors of the C 130 systems, who donated their products to build a company demonstrator averatilitis first flight was on Apr. 20, 1964 it was fater modified to an L 100-20 and flew with a number of air mea before being sold to the Philippine Government. Lockheed sold 21 L 100s. 25 L 100-20s and has to date sold 30 L 100-30s which makes it an unqual fied commercial success. With every stretch, the Hardines becomes more competitive is need to cost per ton-mile has begun to belter that of small and fined umit zelpure jets. The fulling of the Commercial Hark may be in the dash 50 mode proposed by cockheed in 1979. Mod fications include 501 D22E engines a new and ding gear fairing is mitter to those on the C 141s, and insertion of a 20 foot plug in the forward fuselage and a 16 foot plug in the rear fuselage, which would put oversity and 133 leet. The dash 50 is aimed af regional cargo transport operators that need wide-body canacity to interconnect with smaller airports.

Another possibility for the future is the model 400, a twin engine variant of the C-130. If would retain the basic L-100 fuseiage and use the Alhson 502 D22D furbopropieng has on a shorter wing Development of the model L-400 was given the go-ahead in early 1980. The first is expected to begin flying in 1982. Commonantly of these following now versions to earlier models of the C-130/L-100 series should ensure use of the Heroules in commercial vertices well into the next century.



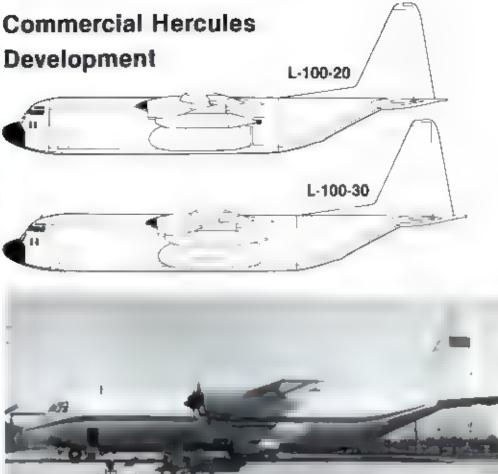
L-100-20 of Southern Air Transport, one of the airlines organized under the segle of the CIA. At Mismi IAP, August 1970. (Lockheed via Davenport)

This pair of L-100-20s was originally sold to Flying W Airways in 1970, returned to Lockheed and refurblehed and sold to Peru in 1973, (Lockheed via Davenport)



Saturn Airlines prevailed upon Lockheed to further stretch the Herk when it won a contract to ferry Roles Royce Engines from England to Paimdele for installation in the Lockheed TriSter Deletion of the Paratroop Doors and ATO stachment points allowed a stretch of 6'8 ½" without a great increase in empty weight. With this stretch, Saturn was able to carry a full set of three of the RR RB-211 Engines. This was given designation L-100-30. Ruddiph was photographed at Kelly AFB, Texas, December 1971. (Norm Taylor)





These L-100s are two of those flown by the airforce of Gabon. The -20 below and the -30 above carry identical color schemes (white and aluminum with blue stripe) but quite different markings. L-100-20 was delivered to the Forces Aeriennes Gabonaises (Gabon Air Force) in December 1976, Seen at Paris, June 1977. (F. Humbiot via Taylor, Lockheed)



Future Herks

Early in 1972 the JSAF requested proposals from industry on an Advanced Medium STOL Transport. The two finalists in the AMST sweepstakes were the Boeing YC 14 and the McDonner Douglas YC 15. Both reflected state-of the art approaches to the problem of has ing troops and their equipment intra-theater. Both were tested extensively in prototype configuration, and though they promised reliability, and inhanced capability through technological advancement, they racked the clout necessary to assure continued funding, which ran out to FY 1979.

Following the setting of the Boeing and McDonneil Douglas AMSTs into the obscurity of non-funding Lockheed-Georgia proposed two low cost identitives of the Circle Test fying before Congress Lit Gen Tom Stafford Air Force deputy chief of staff for research, development and acquisition stated that In the absence of continued funding of AMST. The Air Force might be forced to rely upon modified versions of the Circle to fit its air till needs into the 80s. The two advanced versions of the Herk proposed included an improved volume loadability speed (VLS) version, and a Wilde Body STGL (WBS) version. The primary reason for this concern for a new airplane was caused by the larger size of air-fransportable Army combat sourcement.

The WBS version would have its fuselage enlarged in height from 9.1 feet to 11.3 leet in width from 10 to 11.7 feet and in length from 41.4 to 48.1 leet. The wings and engine support structures would be strengthened to accompose 7.56.A 15 engines with a new 14 foot diameter prop. If would have 1 por and paging ramp strengthened to allow for the heavier loads, ro-control spot ers and the single-piece Fowler llaps would be replaced with double-slotted flaps. It is so would have stronger fanding gear, which would a low heavier gross anding weights and higher sink rates. Additional directions, control would be available through a larger chord rudder and dorsal fin. It would be air refue lable and would meet a 1 of the requirements established for the AMST by the Air Force.

This second advanced C 130 concept proposed by Lockheed was the so-called VLS which incorporates the following features, the all cargo loading door increased in size, drag reduced by the addition of a Tital which, in conjunction with A ison DDA 50t M 71 engines of 5 600 eship driving 14 foot diameter props, would raise the cruise speed to 360 kmits at 20,000 fael, full economy increased by 21% in high speed cruise and 9% in long range orules and interior volume and unrefusied range both increased by 33%. Lockheed ast meted development costs of about 500 million do lars for either version, a mere pit tance in the 1980's world of maga-million dollar defense contracts.

Efforts to devolop new versions of the Herk were not mitted to arger more complex derivatives in January 1980. Lockheed-Georgia was given a go-ahead by the parent company to develop a twin angine version of the C 130. The twin Herk is a mediat the export market, with a projected price tag of about 70 to 80% of that of the L 100. The twin engine

C-130 has been designated L-400 and is to begin flying in the spring of 1982 with first delivenes stated for early in 1983. The L-400 would use the standard L-100 fuse age with 22 feet less wing span, but will have All son 501-D22F engines of 4,900 shaft horsepower driving 14 foot diameter props and be equipped with a water-alcohol injection system to permit the higher take-oil thrust required at high density artificies. Max gross weight of the L-400 was projected at 84,000 fbs.

Back again in the opposite direction Lockheed has proposed a replacement for the EC-130Q TACAMO aircraft in April 1980. The proposal to the U.S. Navy envisioned the most ambitious stretch of the basic design to date. It would be powered by three General Electric/Snecma CFM-56 jet engines, have a larger fuselage puper critical wing and a gross take-off weight of 250,000 lbs, which would give it a 60% increase in pay pad¹



Three artist's conceptions of proposed C-130 derivatives. (Above) The WBS, (Below) the VLS and (Below Left) the L-400.





Epilog

1 May 1980—407th Supply and Service Battalion, 82nd Airborne Division— Drop Zone Salerno, Fort Bragg, N.C.—Parachute Type MC-1—Type Jump, Combat Equipment—Type Aircraft, C-130—Remarks: "You can't go home again."

Early in the preparation of this book, I decided that I would like to return to the scene of my introduction to the C-130, and to go along on a troop drop mission. I wanted to see if

things were as I remembered them. They weren't.

My first clue that time had not stood still for twenty-four years came upon arrival at the Fayetteville airport. Gone was the quaint old terminal building that seemed to fit so well the DC-3-equipped Piedmont Airlines of 1956. In its place was a modernistic shell more in keeping with the 1980s B-737 equipped Piedmont. A four-lane expressway, appropriately christened the 'All American Freeway', now stretched from Fayetteville to the Fort Bragg-Pope AFB complex. So far, no rush of nostalgia and I went to bed that night fearing that everything would have been changed.....that all my links to the past....those brief, but important years spent here....would have disappeared without a trace.

Things began to look a little more familiar when I arrived at the troop marshalling area the next morning. A few buildings remained from my time, including the large building that had been used to pack parachutes. It was now the headquarters of the 82nd Airborne Division Jumpmaster School, which was in session. I was comforted to see that the 82nd still knew the value of highly starched fatigue uniforms and spit-shined boots. But the C-46 and C-119 mockups were gone, as were the old wooden PLF platforms. In their places were several C-130 mockups and concrete platforms—and these looked like they

had been around for several years.

Looking out at the ramp, I could see that other changes had been made. One of the runways had disappeared, completely paved over to provide additional parking space. In the days when C-119s and C-123s were assigned to Pope, there had been two long perpendicular runways with adjacent parking areas of grass. It may not have been a perfectly sylvan setting, but I always thought that there was something great about being able to sprawl in the grass after you got 'chuted up, while you were waiting to board the airplane. The grass seemed to add a barnstorming flavor to each jump and, as anyone who has ever resented the regimen of mititary life will tell you, opportunities to feel freedom within that life are to be savored and remembered fondly. The grass was gone, replaced with concrete. Prefude to additional shocks.

As we approached the troops of the 82nd Airborne who would be making the jump, and were just arriving in the marshalling area, my Air Force escort said, incredulously; "I think I see a girl!" He did. In fact, there were several women in this planeload of 52 jumpers and compounding the surprise was the revelation that the jumpmaster was a woman. a not unattractive woman, I might add. She was Captain Vallie J. Pratt. The competent manner in which she but the troops through their mockup drill left no doubt who was in charge.

The official position on women in the Army is that they won't be assigned to combat units. But there is a fine line between what is officially a 'combat unit', and a 'combat-related unit', and the Army is less conservative on this issue than most people might imagine. Even before women's rights became a cause celebre, the Army was quietly guaranteeing equal opportunities for women. Job assignments are determined by merit, not by sex. This policy has led to women in the role of instructors, administrators, mechanics, communications specialists, medical technicians, pilots, military police and (""gulp"") paratroopers. They have been assigned to the 82nd Airborne Division since 1978. I admit it...I am not liberal enough to completely escape the taint of male chauvinism and I had imagined that occupations such as paratrooper might still remain basilions of macho. Not so, and the attitudes of the male troopers didn't seem to indicate any deference to the females, with the possible exception that there seemed to be a lack of some of the more common colloquiatisms.

Suffering slightly from future shock, I decided to walk out to the airplane and see if it had changed as much as its passengers. This airplane had been around. It was a C-130E, serial number 63-7792. It had been delivered to Military Airlift Command on November 5, 1963, and had served at Dyess AFB, Texas and Langley AFB, Virginia prior to its current

duty with the 36th TAS, 62nd Military Airlift Wing at McChord AFB, Washington. It had brought its crew TDY to Pope for training. It sported a fairly recent application of the three-tone USAF camouflage, complete with the new, low visibility markings which belied its age. It had been well maintained on the inside, too, and I doubt that anyone would have guessed its true age.

Ours was to be the lead ship in a two-plane formation. Number two in the formation would be two to four thousand feet in trail and would keep that distance with the aid of SKE (Station Keeping Equipment), now carried on most MAC C-130s. SKE displays the relative position of the other aircraft in the formation on a radar scope mounted atop the panel between the pilots. Captain Bob Polakoski was getting checked out as a formation leader and he would be flying the left seat, while the aircraft commander, Captain Harry Holliday, checked him out from the right seat. Navigator was Lt. Tim O'Hagan, Engineer was Sgl. James Jones and the loadmasters were Sgls. Ron Smith and Ron Johnson. We were briefed for a 40 minute flight to the DZ. After takeoff we would cancel IFR and fly a low-level VFR route to the drop zone. This was in keeping with combat conditions, with the troops would probably be dropped from 500 feet, or lower, to minimize their exposure to hostile fire. Today we would be dropping them from 1250 AGL.

As I strapped myself in on the crew bunk immediately behind the engineer, the pilots were completing their pre-start checklist. Starting the C-130 is straightforward and simple. With the throttles in the ground idle position, the power levers are moved from Stop to flun and the start button is held in until RPM builds. With all four fans humming, we received clearance to taxi from Pope Ground Control. With those turbines humming at 13,820 rpm, and the props turning over 1,020 rpm, you might expect the life expectancy of the brakes to be severely limited, or wonder why the 130 isn't equipped with an anchor. The answer is in the prop biades. At the taxi setting they have approximately \$5 of their length in positive pitch, while the balance is in reverse. Nose wheel steering, through a small steering wheel located at the pilot's left knee, is used for directional control on the ground. After runup and clearance delivery, we were cleared into position and hold on the active runway. We positioned curselves on the left side of the wide runway, while our wingman taxied into position behind and to our right.

When our takeoff clearance came, the power levers were smoothly advanced. The Herk shook and strained with the restrained power of 16,000 horses. At brake release we surged forward. Takeoff in the Herk is a two-man operation. The pilot is using the nose wheel steering with his left hand (the rudder does not become effective until 80 knots IAS), while controlling the throttles with his right. The inboard throttles are at takeoff power, while the outboards are held back. The reason for this is because, in the event of an outboard

82nd Airborne Trooper getting equipment checked by assistant jumpmaster before the jump of May 1, 1980. (Author)





'Hitting the Blast' from the Paratroop Doors (or,...from the reer cargo ramp of the C-130.) (Author)



engine failure on takeoff while the opposite outboard is developing full power, nosewheel steering would not be enough to hold the airplane straight on the runway. At 80 knots, with an effective rudder, the outboards are pushed up to METO. In the meantime, the copilot is flying the ailerons, concentrating on keeping the wings level. (The narrow track of the main gear makes it possible to inadvertantly drop a wing enough to get the airplane going sideways.) Past 80 knots, the pilot has his hands and feet in the positions you would expect. that is, on wheel, throttles and rudders. At 105 knots he rotated and we flew off the runway smoothly.

It was a warm spring day and we were enjoying the benefit of a stable air mass....Clear blue skies. But with the stable air came haze that reduced visibility to what I estimated to be about five miles. Navigation was strictly by the VFR sectional charts familiar to all Private Pilots. The Intercom was alive with input from both pilots, engineer and the navigator, who was standing behind the co-pilot, pointing out ground references and relating them to our course. He scored a telling point for his navigation when, at one point, in the best tradition of navigators since time immemorial, he indicated to the pilots that our track should be "just to the left of that tree". I had to admit that he certainly didn't exhibit the cavalier attitude that troopers from my generation had ascribed to all Air Force navigators, when it came to dropping troops on the drop zone. (We had always professed to be surprised when they got us on the drop zone, which was probably 90% of the time.) He spent a great deal of time calculating the air release point for the troops and, after the first stick had jumped, he was the first to ask where they had landed. While we were enroute the winds had picked up and were now steady at 10 knots, gusting to 15. There is nothing that will ruin an airborne operation faster than high winds. The 82nd has a policy of calling off operations if the winds exceed a steady 13 knots. In this case, everyone got anto the drop zone, apparently without undue strain.

The ride in the cockpit at 500 feet was not bad at all. There were a few bumps, but they were really hardly noticeable. But back on the ramp, between the paratroop doors, it was a different story. Totally different, it was literally impossible to maintain your feet without hanging on to something. Every thermal, every gust and every slight overcorrection on the controls was magnified unbelievably. If you didn't have a strong stomach, you were in trouble. And if you were a little nervous about leaping out of an airplane to begin with, you were a cinch to be using the plastic bags scattered throughout the cabin. Since I wasn't going to be jumping, and I do have a strong stomach, it was little more than a nuisance to me as I tried to buckle on the safety harness and arrange my camoras for easy use, but there were more than a few troopers whose faces were beginning to match their uniforms.

The difference between 500 feet and 1250 feet AGL was really amazing. Once we climbed to jump attitude and slowed down to 120 knots, the simplane became completely docile. The ritual of the jump commands was pretty much as I had remembered it, with one notable exception. The two safety jumpmasters, who would not jump, were now playing a much more active role in seeing to it that everyone's equipment was thoroughly checked. And when the time came to jump, each trooper had his static line held until after he had departed the airplane. There was simply no way that a static line was going to get entangled. Another change was the metronomic pace of the troopers. While we had regularly emptied airplanes in one pass at the grop zone in the 1950s, they now took at least two passes to do the job. The reasons for this are simply for safety's sake. While the likelihood of enlangiements was great with our old T-10 parachutes, they had multiplied several times over with the introduction of the controllable canopy. If that seems contradictory, you have to consider what the controllable canopy means to the parachutist. The first thing he thinks about after his parachute opens is where he is going to land. He lixes on the ground and, more often than not, will ignore the possibility of imminent mid-air collisions. In a peacetime environment, where the only thing you are practicing is your jump technique, if doesn't make sense to risk the dangers of a closely packed combat drop. The exit of each jumper is now controlled on an individual basis by the jumpmester, which ensures the safe spacing of all jumpers.

With the last of the jumpers gone, the static lines hauled in and the doors slid shut, we headed back to Pope. There had been flashes of nostalgic reminiscence but, by and large, I found that not only were things not the same, but that I had changed too. I now identified with the airmen more than the jumpers. I envied them their day-to-day life of flying this great airplane. A quarter of a century later the Herk was still an impressive plane!

HERCULES

Orders/Deliveries by Customer

As of 31 December 1979

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Note, Hercures acquired secondhand already shows on list. Cotambia G C-1306). Pakistan (10 C-1308, 1 C-1306) and Turkey Ø C-1306).

Herky Nuts

The publication of the "C-130 in Action" marks the 18th in Action title that I have authored or co-authored. The majority of the pholos and information in these books comes from private collections and it is the generosity of all the dedicated enthusiasts out there that makes them possible. I always try to let everyone know what I am working on, in order to get the contributory system working. When the word littered out that we were doing the C-130, the response was overwhelming. Overwhelming in the amount of material donated and overwhelming in the fanatical dedication of the seemingly endless parade of Hercules 'specialists'. It's not surprising that Lockheed's Public Relations Coordinator, Joe Dabney, would have written his own book on the C-130, a very entertaining and lactual account of the life and times of the Herky (Herk: Hero of the Skies). There have also been several other monographs devoted to the C-130, including Profile #223 by Paul St. John Turner, Warpaint Series 5 by Bob Archer, Airline Publications pictorial salute on the Herk's 25th Anniversary and, perhaps one of the most amazing, the Lockheed Hercules Production List compiled by Lars Olausson of Salenas, Sweden, The Production List enumerates and highlights the career of every C-130 built, insolar as details can be ascertained. It is in its third edition and is a must for any serious Herky Nut. (An unnecessary distinction... they are all serious.) Other notable Herky Nuts include my good friend and most consistent and prolific contributor. Norman E. Taylor, and Dave Davenport who may qualify as the most dedicted U.S. Nut. Dave, like Norm, is a retired USAF type. Dave makes his home in Spring Lake, NC, where he is within earshot of the whine and roar of the T-56s at Pope AFB. He is a regular contributor to the base newspaper, the Hercules Herald, with his cartoon chronicles of the Herky's on-going career. It's no accident that the last four digits of Dave's phone number are C130 and that he has a thriving small business based on sales of calendars and T-shirts emblazoned with his illustrated one-liners. All you Herky Nuts who don't already have his address can get your T-shirts by writing Dave at: Herky Bird Unlimited, P.O. Box 25, Spring Lake, NC 28390. For every Herky Nut I have mentioned here, there are dozens of others, and the list grows with the ever-widening realization that the Lockheed C-130 Hercules may be the most diverse, dependable and, if it continues in production, prolific transport ever built,

Dave Davenport and wife Maggle in the midst of their entrepreneurial resim, built on dedication to the C-130.



